VITEK

Mighty Series True Day & Night Dome Cameras

700 TVL Day & Night
Dome Cameras

- 1/3" Sony High Density EXVIEW CCD
- 700 TVL High Resolution
- Sony Effio-E Digital Signal Processor
- 0.0003Lux (F1.2@50IRE)
- 2DNR - Two Dimensional Noise Reduction
- Motion Detection
- Privacy Mask
- Adaptive Tone Reproduction
- Secondary Video Output (Cable Included)
- OSD (On Screen Display) for Camera Function Setup
- Flush or Surface Mount
- Infinity Ball Mount for Any Viewing Angle
- UTP Interface and Heater / Blower Options Available
- ¾" Conduit Knockouts
- Indoor and Outdoor IP 686 Vandal Versions
- 35 IR LED's with 90ft Range (Model L35)
- Optional Extreme Cold (-60°F) Temperature Kit Available
- Available in Ivory or Black
- Dual Voltage 12VDC & 24VAC

TABLE OF CONTENTS

BOX CONTENTS 1
INCLUDED ACCESSORIES 1
AVAILABLE MODELS/ACCESSORIES 2
MIGHTY DOME LAYOUT 3
INSTALLATION 4
JUNCTION BOX INSTALLATION 5
OPEN GIMBAL COVER 6
CONNECTIONS 7
LENS ADJUSTMENT 8
INFINITE AXIS GIMBAL ADJUSTMENT 9
OSD MENU FEATURES/SETUP 10
- 1. In the menu 10
- 2. MAIN menu 10
- 3. MAIN menu - 1 10
- 4. MAIN menu - 2 11
- 5. SHUTTER/AGC menu 11
- 6. SHUTTER/AGC > AUTO SETUP menu 12
- 7. SHUTTER/AGC > MANUAL SETUP menu 13
- 8. LENS menu 13
- 9. DAY/NIGHT menu 13
- 10. PICT ADJUST menu 15
- 11. WHITE BAL menu 15
- 12. ATR (Adaptive Tone Reproduction) menu 17
- 13. BACKLIGHT menu 18
- 14. NR menu 18
- 15. MOTION DET menu 19
- 16. PRIVACY menu 19

TABLE OF CONTENTS

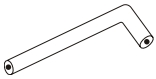
17. LANGUAGE menu 20
18. CAMERA ID menu 20
19. CAMERA RESET 21
20. EXIT 21

DIMENSIONS 22
HEATER/BLOWER SPECIFICATIONS 23
INDOOR MIGHTY DOME SPECIFICATIONS 24
VANDAL MIGHTY DOME SPECIFICATIONS 25
IR MIGHTY DOME SPECIFICATIONS 26
WARRANTY 29

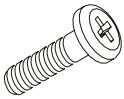
BOX CONTENTS

1) Dome Camera
2) Accessories
3) VT-MD-2VOC (Secondary Video Output Cable)
4) Instruction Manual & Mounting Template

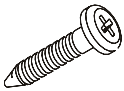
INCLUDED ACCESSORIES



Torx Wrench - (Vandal & IR Versions Only)
Type #: T20
Length: 63mm / Diameter: 4mm
Qty: 1



Phillips head Screws - (Vandal & IR Versions Only)
For attaching the dome cover to the flush housing.
Type #: Phillips head M4x10
Length: 10mm / Diameter: 4mm
Qty: 4

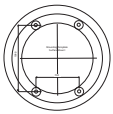


Self Tapping Screws
For attaching the surface mount housing or the the flush mount base to a solid surface.
Type #: Phillips St4x30
Length: 30mm / Diameter: 4mm
Qty:4

Self Tapping Screws - (Indoor Version Only)
For attaching the dome cover to the flush housing.
Type #: Phillips St4x12
Length: 12mm / Diameter: 4mm
Qty: 4

Dowels
If necessary, use the to help secure the self tapping screws.
Length: 30mm / Diameter: 7mm
Qty: 4

Secondary Video Output Cable for Mighty Domes:
VT-MD-2VOC
For viewing video image during installation.
Qty: 1



Mounting Template
Qty: 1

AVAILABLE MODELS / ACCESSORIES

INDOOR MIGHTY DOME CONFIGURATIONS:

VTD-MP2810DN: Indoor True Day and Night Color Dome Camera with 2.8-10mm Varifocal Lens & 700TVL

VTD-MP922DN: Indoor True Day and Night Color Dome Camera with 9-22mm Varifocal Lens & 700TVL

VTD-MP1850DN: Indoor True Day and Night Color Dome Camera with 18-50mm Varifocal Lens & 700TVL

VANDAL RESISTANT MIGHTY DOME CONFIGURATIONS:

VTD-MVP2810DN: Vandal Resistant True Day and Night Color Dome Camera with 2.8-10mm Varifocal Lens & 700TVL

VTD-MVP922DN: Vandal Resistant True Day and Night Color Dome Camera with 9-22mm Varifocal Lens & 700TVL

VTD-MVP1850DN: Vandal Resistant True Day and Night Color Dome Camera with 18-50mm Varifocal Lens & 700TVL

IR MIGHTY DOME CONFIGURATIONS:

VTD-MVP2810/L35: Vandal Resistant Color Dome Camera with 2.8-10mm Varifocal Lens, 700TVL & 35 IR LED's

VTD-MVP922/L35: Vandal Resistant Color Dome Camera with 9-22mm Varifocal Lens, 700TVL & 35 IR LED's

VTD-MVP1850/L35: Vandal Resistant Color Dome Camera with 18-50mm Varifocal Lens, 700TVL & 35 IR LED's

Optional Mounts & Accessories:

1. **Heater/Blower Option 24VAC:** (Vandal Resistant Models)
2. **UTP Option:** Unshielded Twisted Pair Transceiver Built-In
3. **VT-MD/FMP:** Flush Mount Plate for installation in drop ceilings or can be used as cover plate when using 4S Junction Box
4. **VT-MD/PLMT:** Mighty Dome Pole Mount Adapter - Requires VT-MD/WMT Wall Mount
5. **VT-MD/CMT:** Mighty Dome Ceiling/Pedestal Mount (Can be extended if necessary)
6. **VT-MD/CNMT:** Mighty Dome Corner Mount Adapter - Requires VT-MD/WMT Wall Mount
7. **VT-MD/WMT:** Mighty Dome Wall Mount (Available In Ivory or Black)
8. **VT-MD-EMP:** Extender Mounting Plate - Use as stand-off for cable management and extended viewing angle

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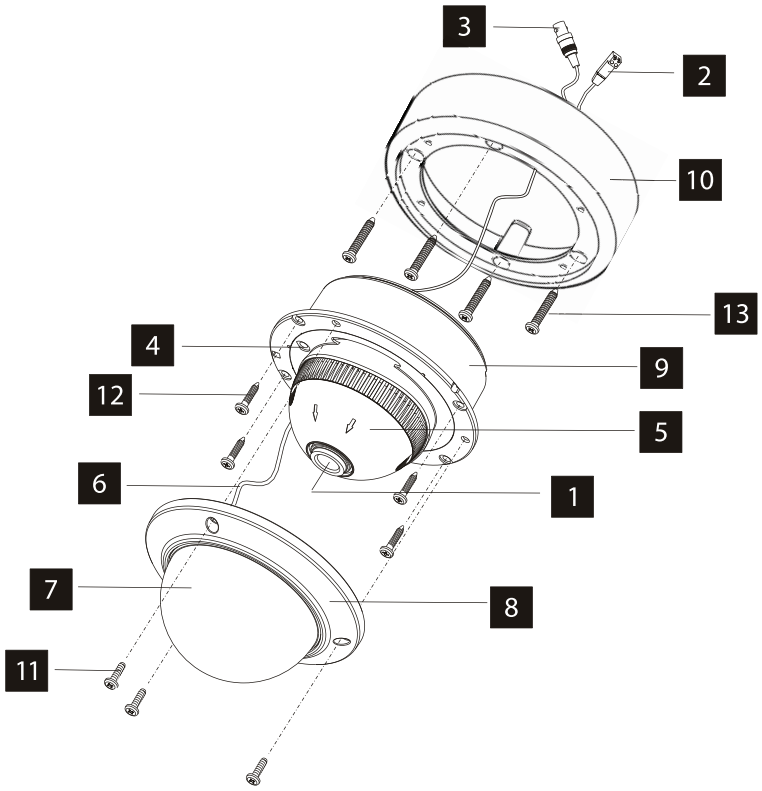
MIGHTY DOME LAYOUT



1) Lens

2) Power Input Connector(12VDC / 24VAC)

3) Video Output Connector - BNC

4) Camera Holder and 2nd Video output

5) Ball with the Camera Assembly

6) Safety Wire

7) Bubble

8) Dome Cover Ring

9) Flush Mount Base

10) Surface Mount Plate

11) Assembly Screws - Torx M4x9 (Vandalproof)

12) Assembly Screws - Phillips ST4x12 (Indoor) / Phillips M4x10 (Vandalproof / IR)

13) Mounting Screws - Phillips ST4x30

INSTALLATION

1) Dome Cover

1.1 Vandal Proof Domes - Use the provided Torx wrench to unscrew the vandal proof screws and remove the dome cover.

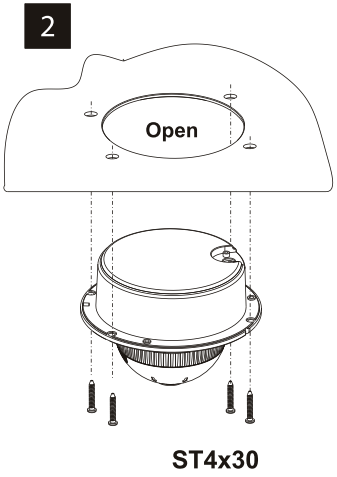
1.2 Indoor Domes - Turn the dome cover to the left to remove the dome cover.

2) Flush Mount Installation:

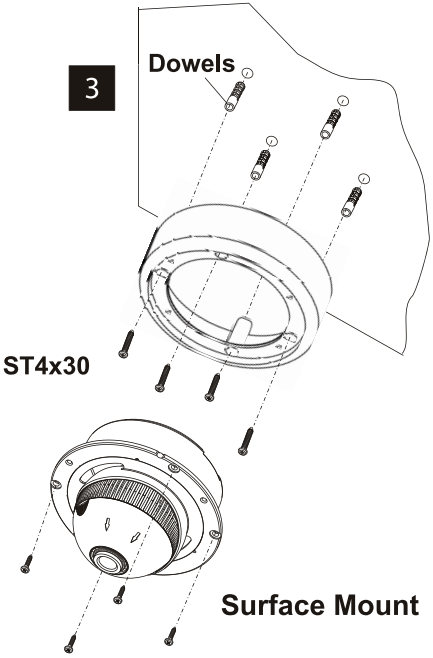
Using four St4x30 screws, attach the flush mount base to a sturdy surface. Optional flush mount decorator plate. Model: VT-MD-FMP

3) Surface Mount Installation:

Drill pilot holes at the mounting location using the provided mounting template. Using four St4x30 screws, mount the surface mount housing to a sturdy surface. Using four ST4x12 (Indoor) screws or M4x10 (Vandal-proof) screws, attach the flush mount base to the surface mount housing.



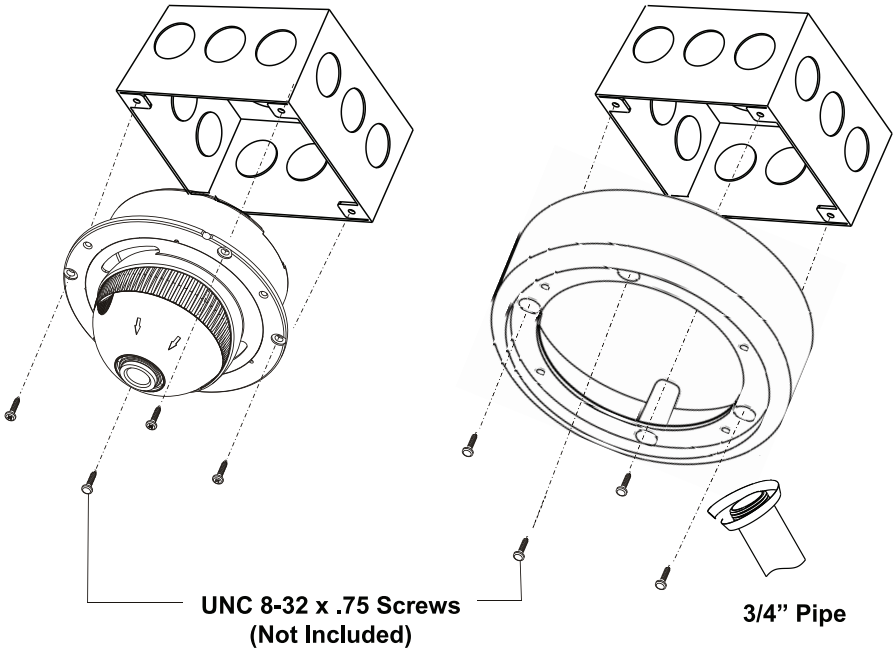
Flush Mount



Surface Mount

JUNCTION BOX INSTALLATION

Mighty Domes can easily be flush or surface mounted to an electrical junction box (4S J-Box) using the pre-drilled mounting holes on either the surface mount housing or the the flush mount base.



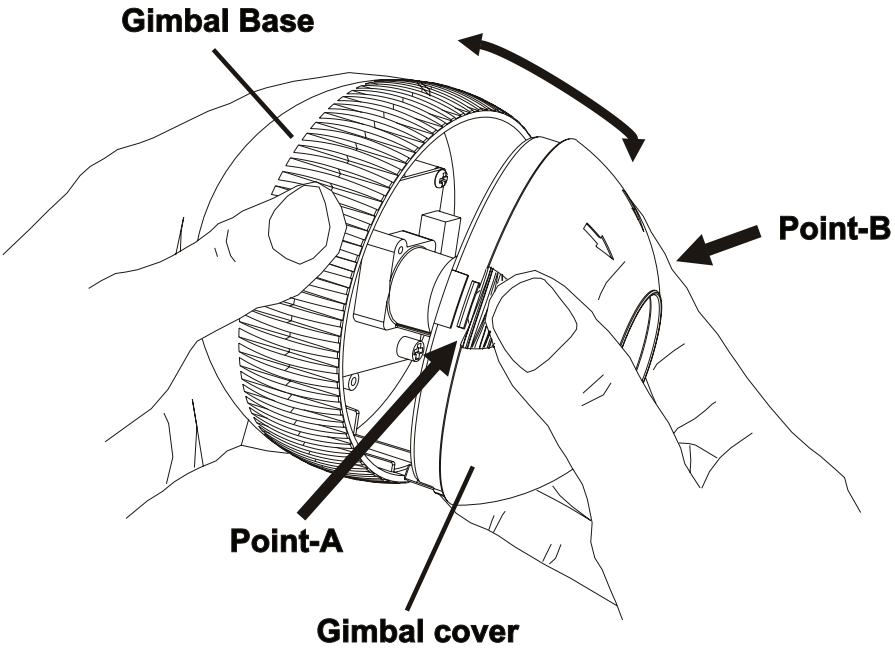
OPEN GIMBAL COVER

To adjust the zoom and the focus, the gimbal needs to be removed temporarily from its base.

1) Remove the ball gimbal from its socket, and hold the base firmly with one hand.

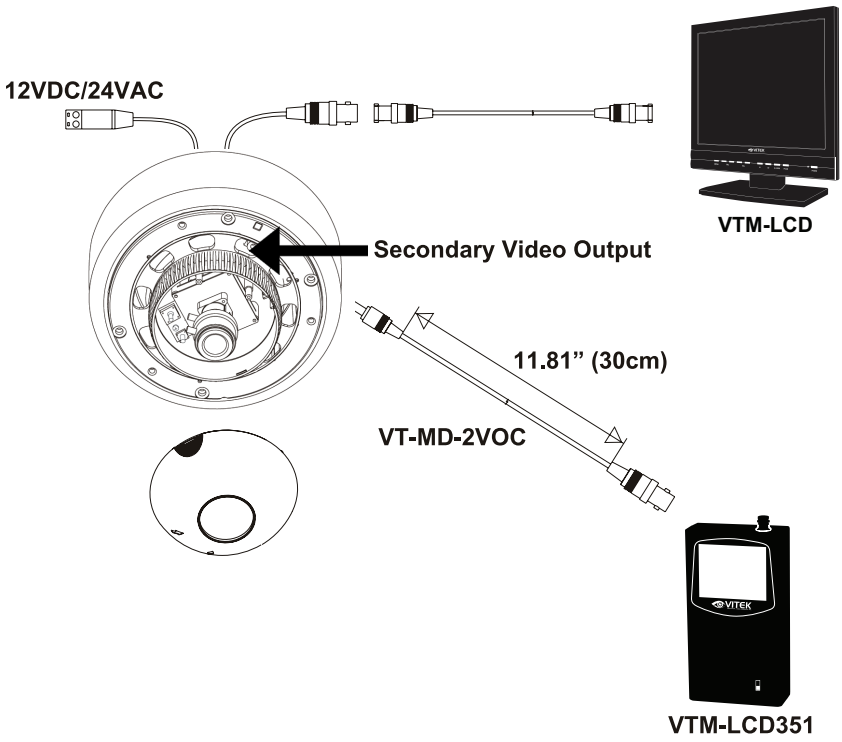
2) Gently squeeze Point A and B and pull away from the base until the gimbal is removed from the base.

3) Replace the Gimbal cover by aligning the cover to the base and pressing down until it snaps back onto the base.



CONNECTIONS

- Power connection: 12VDC or 24VAC dual input.
- All Mighty Dome cameras come standard with a secondary video output. The secondary video cable (VT-MD-2VOC) is included in the box.



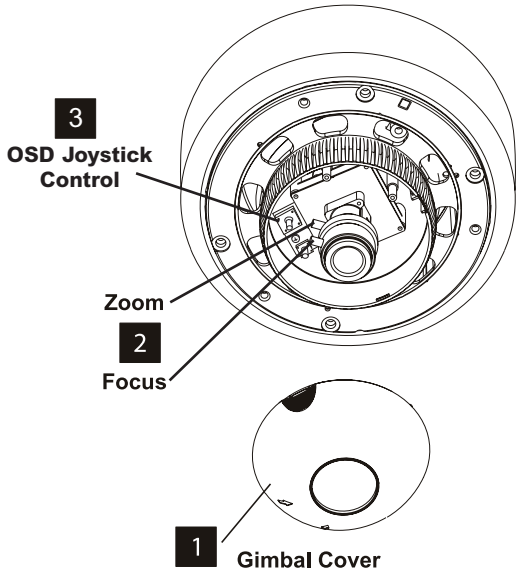
LENS ADJUSTMENT

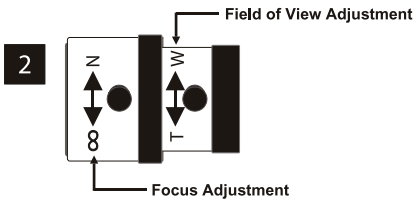
1.) Remove the Gimbal Cover from the Gimbal Base

2.) Loosen Zoom & Focus screws and make necessary adjustments as shown.
Field of View: Telephoto (T) to Wide (W)
Focus: Near (N) to Infinity (∞)

3.) OSD Joystick Control

4.) Reattach the gimbal cover to the gimbal base

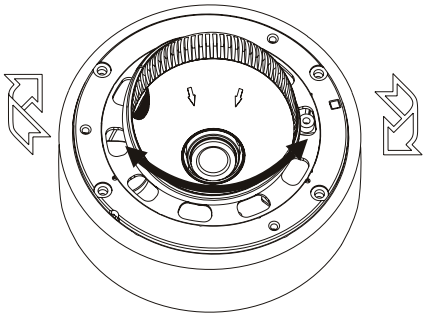




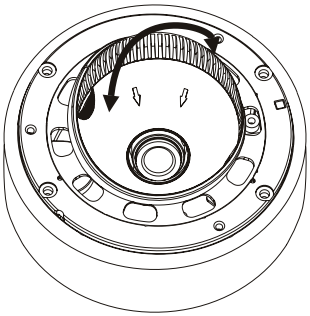
INFINITE AXIS GIMBAL ADJUSTMENT
Rotation and “Friction Hold” Placement

The Gimbal mechanism yields maximum rotation and placement as shown below.

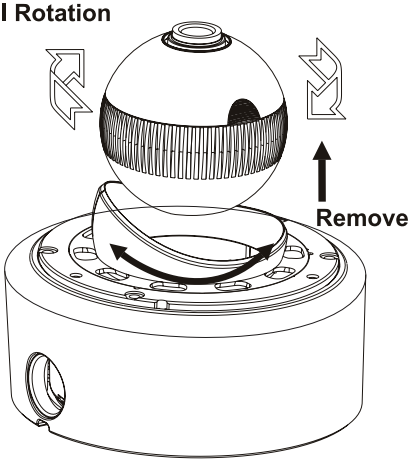
1 **Pan**



2 **Tilt**



3 **Horizontal Rotation**



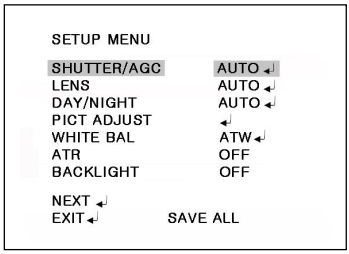
SETUP menu

1 In the menu

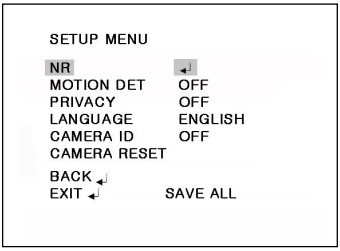
Use ▲, ▼ buttons to move the cursor and ◀, ▶ buttons to change the settings.
Press ● button to select or enter. ● button stands for MENU or ENTER button.

2 MAIN menu

Follow the chart for submenu settings



MAIN menu-1



MAIN menu-2

3 MAIN menu-1

MAIN menu-1	Default	Descriptions
SHUTTER /AGC	AUTO	Sets the parameters related to the shutter mode and AGC for AUTO and MANUAL settings. See page 11 for 'SHUTTER/AGC menu' details.
LENS	AUTO	Selects the lens type, AUTO or MANUAL. AUTO supports DC auto-iris lens only. See page 13 'LENS menu' for details.
DAY/NIGHT	AUTO	Sets DAY/NIGHT mode to AUTO, COLOR or B/W. **AUTO** – Camera switches DAY from/to NIGHT automatically. BURST, DELAY CNT, DAY-NIGHT, NIGHT-DAY can be set. See page 13 for 'DAY/NIGHT menu' details. **COLOR** – Day/Night is disabled and forces to DAY mode only. **B/W** – Day/Night is disabled and forces to NIGHT mode only. Camera removes IR cut filter and switches to B/W.
PICT ADJUST	-	Sets MIRROR, BRIGHTNESS, CONTRAST, SHARPNESS, HUE or GAIN. See page 15 for 'PICT ADJUST menu' details.
WHITE BAL	ATW	Sets ATW, PUSH, USER1, USER2, ANTI CR, MANUAL or PUSH LOCK. See page 15 for 'WHITE BAL menu' details.
ATR	OFF	Sets ON/OFF for enabling/disabling ATR (Adaptive Tone Reproduction) compensation for the better dynamic range of the image. See page 17 for 'ATR menu' to adjust the dynamic ranges.
BACKLIGHT	OFF	Selects BACKLIGHT mode out of OFF, HLC or BLC. Areas and gains for HLC and BLC are factory preset and not user adjustable.
NEXT		Moves to MAIN menu-2.
EXIT		Exits the setup menu. To save the changes, move cursor to 'SAVE ALL' and press ● button before exiting the setup menu.
SAVE ALL		Saves all parameters by pressing ● button.

OSD Menu Features/Setup

4 MAIN menu-2

MAIN menu-2	Default	Descriptions
NR	-	Sets the noise reduction parameters for NR MODE, Y LEVEL and C LEVEL. See page 18 for 'NR menu' details.
MOTION DET	OFF	Sets ON/OFF for enabling/disabling MOTION DET. See page 19, 'MOTION DET menu' for the parameter settings.
PRIVACY	OFF	Sets ON/OFF for enabling/disabling PRIVACY. See page 19, 'PRIVACY menu' for the parameter settings.
LANGUAGE	ENGLISH	Selects the language out of 7 languages.
CAMERA ID	OFF	Sets ON/OFF for enabling/disabling of ID display. Factory default ID is this version of the camera. User programmed camera ID will be lost and restored with Factory default ID after CAMERA RESET. See page 20, 'ID menu' for editing ID.
CAMERA RESET		Restores FACTORY DEFAULT. To save the restored parameters, move cursor to 'SAVE ALL' and press button before exiting the setup menu.
BACK		Returns to MAIN menu-1.
EXIT		Exits the setup menu. To save the changes, move cursor to 'SAVE ALL' and press button.
SAVE ALL		Saves all settings by pressing button.

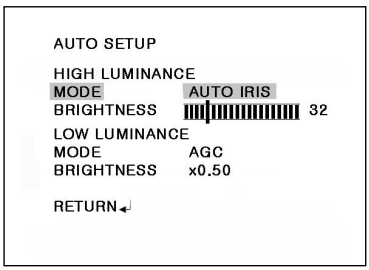
5 SHUTTER/AGC menu

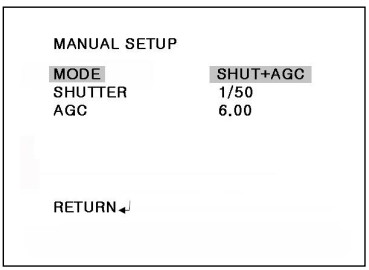
This menu offers how to control/select SHUTTER, AUTO IRIS and AGC to get the best image for the high luminance and the low luminance according to the scene.

For example, to reduce the wash out and extend the dynamic range for the highlight scene, it is improved by SHUTTER+AUTO IRIS in the outdoor daylight. This mode may show color rolling or the video level hunting problem in certain lighting condition such as fluorescent lights.

Flickerless mode reduces the flickers by NTSC camera under 50Hz light or PAL camera under 60Hz light. MAIN> SHUTTER/AGC> MANUAL> SHUTTER must be set to 1/100 (NTSC), 1/120 (PAL) and MAIN> SHUTTER/AGC> AUTO> MODE to AUTO IRIS. Normal shutter speed with an auto iris lens should be set to 1/60 (NTSC) and 1/50 (PAL) for the best sensitivity.

To enter SHUTTER/AGC menu, press button at MAIN **menu-1**>SHUTTER/AGC.





6 SHUTTER/AGC>AUTO SETUP menu

AUTO SETUP		Default	Descriptions
HIGH LUMINANCE	MODE	AUTO IRIS	Selects the shutter mode from AUTO IRIS or SHUT+AUTO IRIS when MAIN>LENS>AUTO but it is fixed to SHUT if MAIN>LENS>MANUAL. **AUTO IRIS** - Light level is controlled by an auto iris lens only. For proper auto iris operation, the auto iris operation mode in MAIN> LENS>AUTO>MODE must be set to AUTO. The shutter speed is fixed to the setting at MAIN>SHUTTER/AGC> MANUAL> SHUTTER in this mode. Set SHUTTER to 1/60 (NTSC) or 1/50 (PAL) for the best sensitivity unless it is in Flickerless mode. To set Flickerless mode: MAIN>SHUTTER/AGC>MANUAL>SHUTTER must be set to 1/100 (NTSC), 1/120 (PAL) and MAIN>SHUTTER/AGC> AUTO>MODE to AUTO IRIS. **SHUT+AUTO IRIS**- Light level is controlled by the combination of an auto iris lens and shutter control to improve the highlight from wash-out and extend the dynamic range. Shutter speed can vary between 1/60(1/50)~1/10,000sec. This mode enhances the overall video quality of daylight but may show a smeared image in bright spotlights. However, color rolling or video level hunting may occur under a certain lighting condition such as fluorescent lights.
	BRIGHT-NESS	032	Adjusts the brightness of the image by an auto iris lens or a shutter speed control + an auto iris lens.
LOW LUMINANCE	MODE	AGC	Sets AGC to compensate the video level when the scene is dim.
	BRIGHT-NESS	x0.50	Sets the brightness level which starts AGC from x0.25, x0.50, x0.75 and x1.0 of full video level. If set to x0.50, the camera will start AGC when the video level goes down to below the 50% level.

NOTICE : The setting AUTO IRIS at SHUTTER/AGC>AUTO SETUP>HIGH LUMINANCE MODE will be changed to SHUT+AUTO IRIS if MAIN menu-1>LENS is changed to MANUAL.

As a result, the lens iris can NOT be fully opened when MAIN menu-1>LENS>AUTO IRIS> MODE is OPEN.

This can be recovered by setting SHUTTER/AGC>AUTO SETUP>HIGH LUMINANCE MODE to AUTO IRIS.

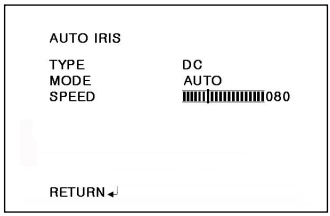
OSD Menu Features/Setup

7 SHUTTER/AGC>MANUAL SETUP menu

MANUAL SETUP	Default	Descriptions
MODE	SHUT +AGC	Compensates the video level by the manual shutter control and AGC.
SHUTTER	1/60 (1/50)	Sets the manual shutter to 1/60(1/50), 1/100(1/120), 1/250,1/500,1/1000, 1/2000,1/4000 or 1/10000. Manual shutter is only useful when luminance is unchanged.
AGC	6.00	Sets AGC gain in dB. Higher gain compensates for a brighter scene, but noise increases. Manual AGC can be set to 6, 12, 18, 24, 30, 36, 42 or 44 8dB.

8 LENS menu

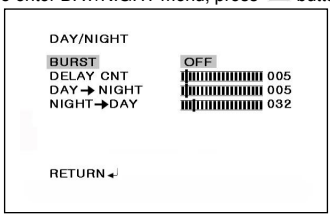
To enter LENS menu, press ⊙ button at MAIN **menu-1**>LENS>AUTO.

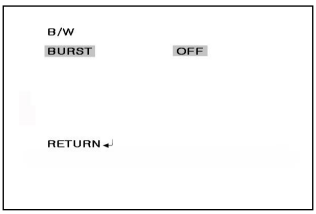


AUTO IRIS	Default	Descriptions
TYPE	DC	**MUST BE SET TO DC ONLY**. This camera does NOT support video type auto iris lens.
MODE	AUTO	**AUTO** – Lens iris is automatically controlled according to the scene's light level. **OPEN** – Lens is fully opened regardless of the light level. **CLOSE** – Lens is fully closed.
SPEED	080	Adjusts the iris control speed. The lower the value, the faster the speed. If the speed is too slow or fast, the iris control may be unstable.

9 DAY/NIGHT menu

To enter DAY/NIGHT menu, press ⊙ button at MAIN **menu-1**>DAY/NIGHT





IMPORTANT ACTIVITY!!!

DAY->NIGHT and NIGHT->DAY operations must be examined and verified at the final installation.

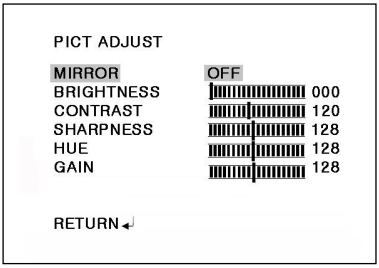
Block the lens for a few seconds for NIGHT mode, then release and let it return to DAY mode.
If camera stays at NIGHT mode for more than 10sec, slightly increase 'N→D THRES' and repeat the fore-mentioned steps.
If the scene is too dim or the lens iris was adjusted too low (near close), it may not return to DAY.

DAY/NIGHT	Default	Descriptions
BURST	OFF	**BURST** mode contains color burst signal when the camera switches to B/W. ON mode maintains the same color signal in B/W so that the video signal provides better compatibility with certain color equipment. OFF mode removes the color burst signal B/W video and increase the total TV lines.
DELAY CNT	005	**DELAY CNT** is the time in seconds before Day↔Night switches. DELAY can avoid the unwanted/frivolous switching of short term lights such as light from a passing car.
DAY→NIGHT	005	**DAY→NIGHT** mode sets a threshold level to determine when switch from DAY to NIGHT. Lower (Higher) value makes the camera switched from Day to Night at lower (higher) illumination. If the camera stays in Color at night time, increase **DAY→NIGHT** threshold value until it just switches to Night. **CAUTION If the value between DAY→NIGHT and NIGHT→DAY is minimal, then camera may switch between DAY and NIGHT mode repeatedly.**
NIGHT→ DAY.	3	**NIGHT→DAY** mode sets a threshold level to determine when to switch from NIGHT to DAY. Lower (Higher) value makes the camera switched from Night to Day at lower (higher) illumination. If the camera stays in B/W mode during day time, decrease **NIGHT→DAY** threshold value until it switches to Day. **CAUTION If the value between DAY→NIGHT and NIGHT→DAY is minimal, then camera may switch between DAY and NIGHT mode repeatedly.**

OSD Menu Features/Setup

10 PICT ADJUST menu

To enter PICT ADJUST menu, press ⊙ button at MAIN **menu-1**>PICT ADJUST.



PICT ADJUST	Default	Descriptions
MIRROR	OFF	Picture will be flipped horizontally if it turns ON.
BRIGHTNESS	000	Increases or decreases the brightness of the picture. This is different from that of DC iris lens because it simply increases or decreases the digital gain of the video. Do not increase this too much or the dynamic range for the highlight area will decrease.
CONTRAST	120	Increases or decreases the contrast of the picture.
SHARPNESS	128	Increases or decreases the sharpness of the picture. Too much sharpness can make the image too harsh and show more noise as well as line flicker at the edge of object in the picture.
HUE	128	Adjusts hue for NTSC version only.
GAIN	128	Increases or decreases the color gain of the picture.

11 WHITE BAL menu

White balance can be set to ATW, PUSH, USER1, USER2, ANTI CR, MANUAL or PUSH LOCK.
ATW (Auto Tracking White balance) and PUSH (Full pull-in) are continuously monitoring/analyzing the color temperature of the incoming light and correcting the white balance.

ATW limits the color temperature range at about 2,500˚K~8,500˚K to reduce the excessive compensation for the big object which has a single color.
PUSH has no limits between about 1,800˚K~10,500˚K but it may over-compensate the white balance for the big object which has a single color.

In cases where it goes under 2,500˚K such as halogen light, ATW may stop. If so, PUSH mode is recommended.

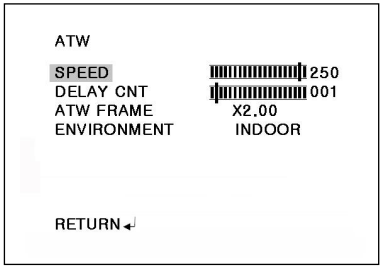
USER1 and USER2 are a fixed white balance which is user-programmable by R-GAIN and B-GAIN and useful only for the steady light.

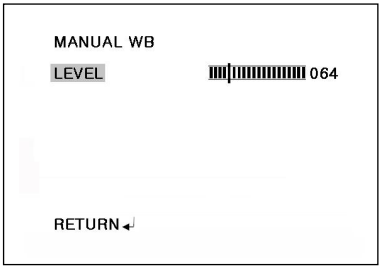
ANTI CR (Anti Color Rolling) can reduce color rolling under the fluorescent light when the camera operates in shutter control without an auto iris lens. (NTSC version only)

MANUAL white balance is a kind of fixed white balance which is user-programmable by B-GAIN.
(R-GAIN will be automatically adjusted in accordance with B-GAIN) and useful only for the steady light.

PUSH LOCK is a fixed white balance where the white balance is compensated only while the ○ button is pressed at MAIN>WHITE BAL>PUSH LOCK and finishes the white balance when ○ button is released.

To enter ATW (MANUAL) menu, press ○ button at MAIN **menu-1**>WHITE BAL>ATW(MANUAL).





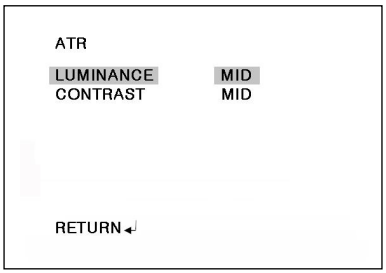
ATW	Default	Descriptions
SPEED	250	Sets the AWB compensating speed. Lower value makes AWB faster. **CAUTION** Too fast an AWB may force color oscillation.
DELAY CNT	001	Adjusts the AWB compensation period to next update of AWB. The smaller value will update AWB more frequently (faster).
ATW FRAME	X2.00	Determines the ATW range with respect to the fundamental range. A higher value than x1.00 extends the ATW range at lower and higher color temperature.
ENVIRON-MENT	INDOOR	Selects INDOOR or OUTDOOR. Their ATW is optimized for the limited application and cannot cover. **INDOOR** - Optimized for Indoor installation and compensates ATW for low color temperature such as incandescent lights. **OUTDOOR** - Optimized for outdoor sunlit applications and compensates ATW for high color temperature such as daylight.

MANUAL WB	Default	Descriptions
LEVEL	064	Manual White Balance Adjustment value.

12 ATR (Adaptive Tone Reproduction) menu

The ATR feature improves the dynamic range and the visibility of the image by providing the optimal gradation compensation of the image in one field. This is achieved by two ways of image processing, luminance compression and contrast enhancement, so that the tone can be enhanced at highlighted and dark areas.

To enter ATR menu, press ⏺ button at MAIN **menu-1**>ATR.



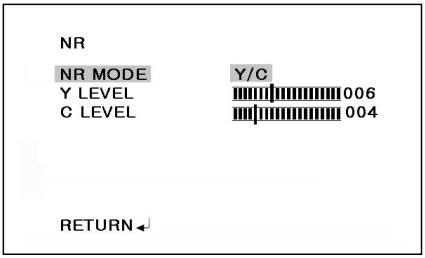
ATR	Default	Descriptions
LUMINANCE	MID	Compresses the highlighted area and enhances the dark area so that the entire image can converge toward the medium level. LOW will compensate minimally and HIGH will average out the image. With setting HIGH, the image may look less contrastive and noise may increase in the dark area.
CONTRAST	MID	Adjusts the strength of the image contrast. If set to too high, the dark area may lose detail and the high luminance area may saturate.

13 BACKLIGHT menu

To enter BACKLIGHT menu, press button at MAIN **menu-1**>BACKLIGHT.

14 NR menu

To enter NR menu, press button at MAIN **menu-2**>NR.

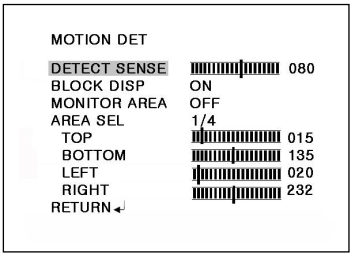


NR	Default	Descriptions
NR MODE	Y/C	Selects OFF, Y, C or Y/C which noise reduction is performed with.
Y LEVEL	006	Indicates the noise reduction strength for the luminance signal. Higher value performs stronger noise reduction and makes the image less sharp. Due to the limitation of 2D NR, noise reduction may not be effective enough.
C LEVEL	004	Indicates the noise reduction strength for the chrominance signal. Higher value performs stronger noise reduction and makes the image less sharp. Due to the limitation of 2D NR, noise reduction may not be effective enough.

15 MOTION DET menu

Up to 4 motion detection areas are available and each area is programmable in size and location.
The motion is displayed by means of blocks when MAIN **menu-2**>MOTION DET and MOTION DET>BLOCK DISP are ON.

To enter MOTION DET menu, press button at MAIN **menu-2**>MOTION DET>ON.

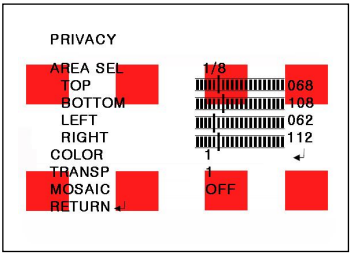


MOTION DET	Default	Descriptions
DETECT SENSE	080	Adjusts the sensitivity for detecting motion. A higher value is more sensitive.
BLOCK DISP	ON	Enables or disables displaying blocks for the area where the motion is detected.
MONITOR AREA	OFF	Displays four motion windows as programmed in sizes and positions.
AREA SEL	1/4	Selects AREA1~AREA4 to be adjusted. TOP (BOTTOM) - button moves up and button moves down the top (bottom) border of the selected window at AREA SEL. LEFT (RIGHT) - button moves left and button moves right the left (right) border of the selected window at AREA SEL

16 PRIVACY menu

Up to 8 privacy areas are available and each area is programmable in size and location.
The number of privacy areas is limited to four when MOTION DET>MONITOR AREA is ON.
The privacy areas are masked with the color selected by PRIVACY>COLOR.

To enter PRIVACY menu, press button at MAIN **menu-2**>PRIVACY>ON.



PRIVACY	Default	Descriptions
AREA SEL	1/8	Selects one of AREA1~AREA8 to be adjusted. TOP(BOTTOM) - button moves up and button moves down the top (bottom) border of the selected window at AREA SEL. LEFT(RIGHT) - button moves left and button moves right the left (right) border of the selected window at AREA SEL
COLOR	1	Sets one of 8 colors for the selected mask window at AREA SEL.
TRANSP	1.00	Transparency rate for the mask can be adjusted. 0.00 - Mask is fully transparent and not visible. 0.50 - Mask is 50% transparent. 0.75 - Mask is 25% transparent. 1.00 - Mask is not transparent.
MOSAIC	OFF	Enables or disables the mosaic effect for the selected mask window at AREA SEL

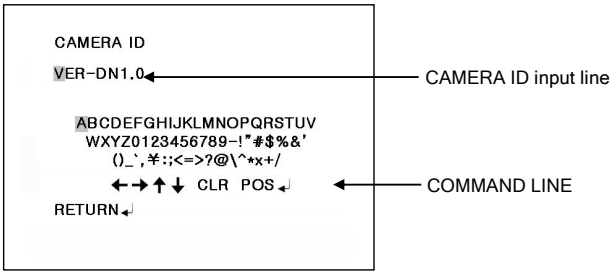
17 LANGUAGE menu

Seven languages, ENGLISH ,JAPANESE, DEUTCH, FRANCAIS, RUSSIAN, PORTUGUES and ESPANOL, are available with this camera.

18 CAMERA ID menu

Up to 40 characters can be input for camera ID.

To enter CAMERA ID menu, press button at MAIN **menu-2**>CAMERA ID.



Use , , , buttons to move a block cursor in character table and press button to input the selected character.

To move the character input position on CAMERA ID input line, move a cursor to ←→ on COMMAND LINE and press button on ← or →.

To clear CAMERA ID input line, move a cursor to CLR on COMMAND LINE and press button.

To set the location of CAM TITLE to be displayed on the monitor, move a cursor to POS and press button. Then, the menu will disappear and the CAMERA ID will be displayed on the monitor.

Move CAMERA ID by using , , , buttons and press button to fix.
Menu will appear again.

To finish CAM TITLE menu, press button on RET on command line.

19 CAMERA RESET

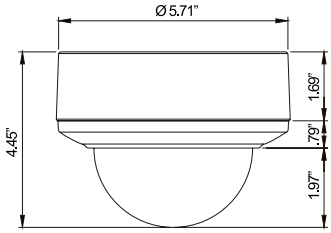
Camera loads Factory defaults.
To save them, go to SAVE ALL and press button.

20 EXIT

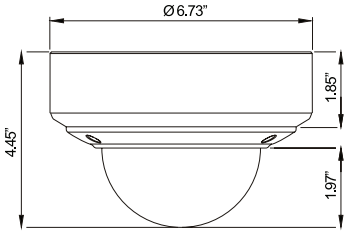
Exits SETUP MENU and returns to the normal display

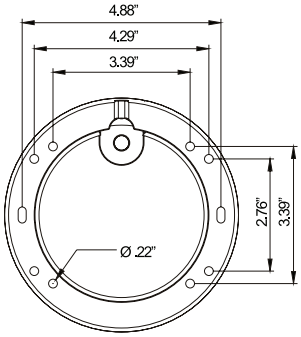
DIMENSIONS

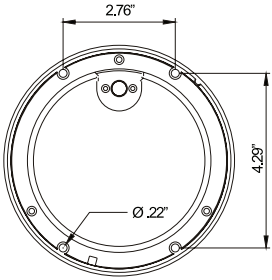
Indoor

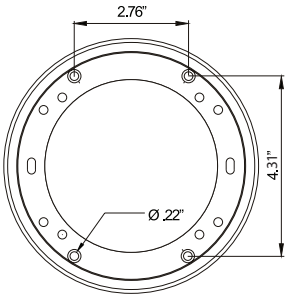


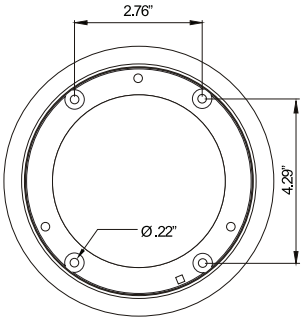
Vandal

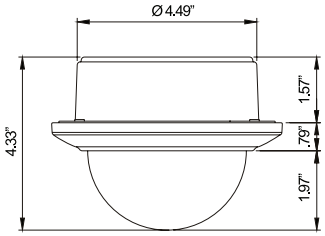


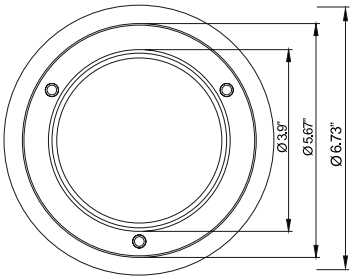












HEATER / BLOWER SPECIFICATIONS

Specifications	
Power Supply	24 VAC
Power Consumption	10W (Heater) / .7W (Blower)
Heater	On: at 41ºF / Off at 59ºF
Blower	Continuous 24 Hour Operation
Extreme Weather Heater - Optional	On: -60ºF

INDOOR MIGHTY DOME SPECIFICATIONS

Specifications	NTSC	PAL
Image Device	1/3” Sony High Density EXVIEW CCD	
Image Processor	Sony Effio-E Digital Signal Processor	
Effective Pixels	976(H) x 494(V)	976(H) x 582(V)
Scan System	2:1 Interlace	
Scan Frequency	59.94Hz(V), 15.734Khz(H)	50Hz(V), 15.625Khz(H)
Synchronization	Internal	
Horizontal Resolution	700TVL	
Sensitivity	0.0003Lux (F1.2@50IRE)*	
S/N Ratio	More than 50dB with AGC OFF at 50IRE	
Electronic Iris	1/60 ~ 1/100,000sec	1/50 ~ 1/100,000sec
White Balance	1,800 ~ 10,5000K Automatic Tracking	
Motion Detection	YES (24x16 BLOCK ALARM AREA)	
Privacy Mask	8 mask	
OSD Language	EN, FR, DE, ES, POR, SC, RUS, JP	
Day & Night	True Day and Night by ICR	
Lens Options	F1.2 2.8-10mm DC Auto Iris IR Corrected ICR / F1.8 9-22mm	
	DC Auto Iris IR Corrected ICR / F1.5 18-50mm DC Auto Iris Corrected ICR	
Video Output	VBS 1 Vpp +/- 10%, 75ohm	
Operating Power	24VAC / 12VDC	
Operating Condition	-4F ~ 122F (-20C ~ +50C), 85% RH. Max. Non-condensing	
Dimensions (H x Dia.)	4.45” x 5.71” (113mm x 145mm)	
Weight (Camera)	1lb / .46Kg	
Weight (Carton)	1.6lb / .72Kg	

*Light Sensitivity may vary depending on lens specifications and capsule density and color

VANDAL MIGHTY DOME SPECIFICATIONS

Specifications	NTSC	PAL
Image Device	1/3" Sony High Density EXVIEW CCD	
Image Processor	Sony Effio-E Digital Signal Processor	
Effective Pixels	976(H) x 494(V)	976(H) x 582(V)
Scan System	2:1 Interlace	
Scan Frequency	59.94Hz(V), 15.734Khz(H)	50Hz(V), 15.625Khz(H)
Synchronization	Internal	
Horizontal Resolution	700TVL	
Sensitivity	0.0003Lux (F1.2@50IRE)*	
S/N Ratio	More than 50dB with AGC OFF at 50IRE	
Electronic Iris	1/60 ~ 1/100,000sec	1/50 ~ 1/100,000sec
White Balance	1,800 ~ 10,500K Automatic Tracking	
Motion Detection	YES (24x16 BLOCK ALARM AREA)	
Privacy Mask	8 mask	
OSD Language	EN, FR, DE, ES, POR, SC, RUS, JP	
Day & Night	Infrared Cut-Filter Removable Built-In	
IP Rating	IP686	
Lens Options	F1.2 2.8-10mm DC Auto Iris IR Corrected ICR / F1.8 9-22mm	
	DC Auto Iris IR Corrected ICR / F1.5 18-50mm DC Auto Iris Corrected ICR	
Video Output	VBS 1 Vpp +/- 10%, 75ohm	
Operating Power	24VAC / 12VDC	
Operating Condition	-4F ~ 122F (-20C ~ +50C), 85% RH. Max. Non-condensing	
Dimensions (H x Dia.)	4.45" x 6.73" (110mm x 170mm)	
Weight (Camera)	2.3lb / 1043g	
Weight (Carton)	2.9lb / 1315g	

*Light Sensitivity may vary depending on lens specifications and capsule density and color

IR MIGHTY DOME SPECIFICATIONS

Specifications	NTSC	PAL
Image Device	1/3" Sony High Density EXVIEW CCD	
Image Processor	Sony Effio-E Digital Signal Processor	
Effective Pixels	976(H) x 494(V)	976(H) x 582(V)
Scan System	2:1 Interlace	
Scan Frequency	59.94Hz(V), 15.734Khz(H)	50Hz(V), 15.625Khz(H)
Synchronization	Internal	
Horizontal Resolution	700TVL	
Sensitivity	0.0003Lux (F1.2@50IRE)*	
S/N Ratio	More than 50dB with AGC OFF at 50IRE	
Electronic Iris	1/60 ~ 1/100,000sec	1/50 ~ 1/100,000sec
White Balance	1,800 ~ 10,500K Automatic Tracking	
IR LED's	35 IR LED's with up to 90' Range	
Motion Detection	YES (24x16 BLOCK ALARM AREA)	
Privacy Mask	8 mask	
OSD Language	EN, FR, DE, ES, POR, SC, RUS, JP	
Day & Night	Infrared Cut-Filter Removable Built-In	
IP Rating	IP686	
Lens Options	F1.2 2.8-10mm DC Auto Iris IR Corrected ICR / F1.8 9-22mm	
	DC Auto Iris IR Corrected ICR / F1.5 18-50mm DC Auto Iris Corrected ICR	
Video Output	VBS 1 Vpp +/- 10%, 75ohm	
Operating Power	24VAC / 12VDC	
Operating Condition	-4F ~ 122F (-20C ~ +50C), 85% RH. Max. Non-condensing	
Dimensions (H x Dia.)	4.45" x 6.73" (110mm x 170mm)	
Weight (Camera)	2.3lb / 1043g	
Weight (Carton)	2.9lb / 1315g	

*Light Sensitivity may vary depending on lens specifications and capsule density and color

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15”, 17“, and 19” Professional LCD Monitors

- 15”, 17“, and 19” Professional LCD Display Panels
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- Resolution up to 1280 X 1024 (17” & 19”)
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- VESA Standard Mounting

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H.264

- Highly efficient H.264 compression
- Built-in Data Redundancy
- Real-time recording and real-time playback
- System Setup Wizard and User Friendly GUI
- Multi-Resolution recording
- 4 Spot Output (8 &16 Channel)
- Highly efficient and stable proprietary Database Structure
- Identical GUI for DVR and client viewer
- Built-in Point-of-Sales support
- Web clients & CMS (Central Management Software) Included
- iPhone App

LIMITED LIABILITY WARRANTY

VITEK products carry a three (3) year limited warranty. VITEK warrants to the purchaser that products manufactured by VITEK are free of any rightful claim of infringement or the like, and when used in the manner intended, will be free of defects in materials and workmanship for a period of three (3) years, or as otherwise stated above, from the date of purchase by the end user. This warranty is non-transferable and extends only to the original buyer or end user customer of a VITEK Authorized Reseller.

The product must have been used only for its intended purpose, and not been subjected to damage by misuse, willful or accidental damage, caused by excessive voltage or lightning.

The product must not have been tampered with in any way or the guarantee will be considered null and void.

This guarantee does not affect your statutory rights.

Contact your local VITEK Reseller should servicing become necessary.

VITEK makes no warranty or guarantee whatsoever with respect to products sold or purchased through unauthorized sales channels. Warranty support is available only if product is purchased through a VITEK Authorized Reseller.

VITEK
INDUSTRIAL VIDEO PRODUCTS, INC.

28492 CONSTELLATION ROAD VALENCIA, CA 91355
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